

## 03040202-030

### (Lynches River)

#### General Description

Watershed 03040202-030 is located in Lancaster and Chesterfield Counties and consists primarily of the **Lynches River** and its tributaries from Hills Creek to Flat Creek. The watershed occupies 31,911 acres of the Piedmont region of South Carolina. The predominant soil types consist of an association of the Goldston-Pacolet-Cecil-Badin-Tatum series. The erodibility of the soil (K) averages 0.26; the slope of the terrain averages 14%, with a range of 2-25%. Land use/land cover in the watershed includes: 70.7% forested land, 21.5% agricultural land, 6.7% scrub/shrub land, 0.5% barren land, 0.4% urban land, and 0.2% water.

This section of the Lynches River accepts drainage from its upper reach, together with Wildcat Creek (North Branch Wildcat Creek, South Branch Wildcat Creek, Sutton Branch, Long Branch), Turkey Creek, Arant Branch, Shop Branch, Belk Branch (Horton Spring Branch), Cedar Falls Branch, and Rocky Branch. There are a few ponds (totaling 15.6 acres) and a total of 76.8 stream miles in this watershed, all classified FW.

#### Water Quality

| <u>Station #</u> | <u>Type</u> | <u>Class</u> | <u>Description</u>   |
|------------------|-------------|--------------|--|
| PD-113           | P           | FW           | LYNCHES RIVER AT SC 9 WEST OF PAGELAND                     |
| PD-179           | S           | FW           | N. BRANCH WILDCAT CREEK AT S-29-39 1 MILE S OF TRADESVILLE |
| PD-679           | BIO         | FW           | NORTH BRANCH WILDCAT CREEK AT SR 178                       |
| PD-180           | S           | FW           | S. BRANCH WILDCAT CREEK AT S-29-39 2 MILE S OF TRADESVILLE |

**Lynches River (PD-113)** - This station also reflects the influence of drainage from the upstream watershed 03040202-010. Aquatic life uses are fully supported; however, endrin was detected in the water column in 1996. Significant decreasing trends in five-day biochemical oxygen demand and total nitrogen concentration suggest improving conditions for these parameters. Recreational uses are fully supported and a significant decreasing trend in fecal coliform bacteria concentration suggests improving conditions for this parameter.

**North Branch Wildcat Creek** - There are two monitoring sites along North Branch Wildcat Creek. At the upstream site (**PD-179**), aquatic life uses are fully supported. There is a significant decreasing trend in pH. A significant decreasing trend in five-day biochemical oxygen demand suggests improving conditions for this parameter. Recreational uses are not supported due to fecal coliform bacteria excursions. At the downstream site (**PD-679**), aquatic life uses are partially supported based on macroinvertebrate community data.

**South Branch Wildcat Creek (PD-180)** - Aquatic life uses are fully supported; however, there is a significant increasing trend in turbidity. A significant decreasing trend in five-day biochemical oxygen

demand suggests improving conditions for this parameter. Recreational uses are partially supported due to fecal coliform bacteria excursions; however, a significant decreasing trend in fecal coliform bacteria concentration suggests improving conditions for this parameter.

## **NPDES Program**

### ***Active NPDES Facilities***

#### ***RECEIVING STREAM***

#### ***FACILITY NAME***

#### ***PERMITTED FLOW @ PIPE (MGD)***

#### ***COMMENT***

#### ***NPDES#***

#### ***TYPE***

#### ***LIMITATION***

LYNCHEs RIVER TRIBUTARY  
BECKER HANSON AGGREG./JEFFERSON  
PIPE #: 001 FLOW: 1.5

SCG730062  
MINOR INDUSTRIAL  
EFFLUENT

NORTH BRANCH WILDCAT CREEK  
BUFORD SCHOOL/LANCASTER  
PIPE #: 001 FLOW: 0.035  
WQL FOR DO,TRC,NH3N,BOD5

SC0030210  
MINOR DOMESTIC  
WATER QUALITY

## **Nonpoint Source Management Program**

### ***Mining Activities***

#### ***MINING COMPANY***

#### ***MINE NAME***

#### ***PERMIT #***

#### ***MINERAL***

BECKER MINERALS, INC.  
JEFFERSON PLANT

0093-25  
GRANITE

## **Growth Potential**

There is a low potential for growth in this watershed. U.S. Hwy. 601 crosses the watershed, and is scheduled for widening in the next five years to four lanes. The remainder of the watershed is predominately rural with forested land and rangeland.